

Work Element 400

May 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to define, develop, implement and evolve/enhance the requirements defined by NSSDC government staff relating to data storage, access and performance.

SIGNIFICANT EVENTS:

- Continued to support the operations staff with data ingest and archiving as needed.
- Maintained the DIONAS software suite and continued coding on enhancements to it.
- Continued planning of the system and processes to migrate NSSDC data to next generation of media.
- Coordinated with operations group for design and development of enhancements to DIONAS; coordinate software testing in an operational environment.
- Continued to interface with the Database Administrator about operational databases and next generation database designs.
- Continued to interface with NOST and coordinate the development of the next functional version of the NOST-supplied core software for DIONAS.
- Provided representation to the NSSDC Configuration Control Board.

Work Element 410

May 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to perform all the necessary, non-personal services required to manage contractor and sub-contractor staff supporting the Operations portion of the Space Science Data Operations Office (SSDOO). The contractor management team will meet with the NSSDC and SSDOO management staff to discuss significant events, updates, issues and concerns from the Operations Group. The Metrics Tracking System will be maintained current.

SIGNIFICANT EVENTS:

- Held Operations management staff meetings as needed.
- Held meetings with Operations staff as needed.
- Attended Government/Contractor meetings as scheduled.
- Provided representation to the NSSDC Configuration Control Board.
- Reported monthly PBC Metrics for April 2002.

Work Element 421

May 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ingest data into the NSSDC on-line, nearline and offline data archives.

SIGNIFICANT EVENTS:

- Continued to ingest IMAGE data, received 8 deliveries with a total of 315 files. All were ingested in a timely manner.
- Continued to ingest ISIS –1 data, received 19 deliveries with a total of 19124 files. All were ingested in a timely manner.
- Continued to ingest ISTP data, received 20 deliveries with a total of 1295 files. All were ingested in a timely manner.
- Continued to receive and archive data on physical media, a total of 48 GB on 111 CDs and 4 magneto-optical disks from Advanced Composition Experiment, Galileo Orbiter, Geotail, Polar, SAMPEX, Ulysses and Wind missions.
- Continued to advise the software development team with operational insights for design and development of enhancements to DIONAS; continued to support software testing in an operational environment.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.
- Continued data processing and ingest for the remaining data from NDADS, including ISIS2, IRAS, Voyager 1&2, Pioneer, Ulysses, San Marco, Mariner 10 and IMP-8.

Work Element 422

May 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ensure that the data bundles entrusted to NSSDC are reliably findable, retrievable and usable into the indefinite future.

SIGNIFICANT EVENTS:

- Environmental monitors were checked each workday. The values recorded were out of compliance on 13 days. The PBC Work Element Manager was duly notified in a timely manner.
- Security was maintained and security procedures followed for the archive storage areas; there were no breaches.
- Continued to advise the software development team with operational insights for design and development of enhancements of JIN; continued to support software.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.

Work Element 423

May 2002

Request Coordination and Services

PBC Work Element Manager – David Han

OBJECTIVE: to provide user support and request activities coordination for all data center services.

SIGNIFICANT EVENTS:

- The following user support was provided: e-mail referrals - 5; telephone - 11; faxes 1; scientific assistance - 6; e-mail support - 50; data services - 56; special projects - 17.
- A total of 3,542 shipments were made including 5 Federal Express shipments.
- We completed 3,036 requests for 3,211 Milky Way posters and 453 requests for 454 COBE posters.
- Due to so many mail messages being extracted in February, there weren't any new messages extracted in the month of May. The first work day of May, there were 22,153 un-read mail messages in the account and on the last day of the month there were 27,868. There was a total of 5,715 new messages received in May.
- A staff member returned from disability this month on a part-time basis and will return full-time the beginning of June.
- There was a meeting between Bob Tice, Marie Dowling, Barbara Pope and Sharlene Rhodes to discuss a way to track user support requests that end up not being put in the database to better account for our time. We are testing ways of measuring this and once we find a way that we are satisfied with, we will present it to management.

Work Element 430

May 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to provide comprehensive information functionality related to availability of data, to all launched spacecraft and to many spaceborne experiments.

SIGNIFICANT EVENTS:

- Maintained and updated the NSSDC Master Catalog.
- Maintained and updated JRAND.
- Maintained and updated JEDS and IDA.
- Maintained AIM and TRF and made 94 updates to them.
- No problem reports about the databases were received this period.
- No FILEX report was required this period.
- Prepared and issued SATX report in a timely manner.
- Prepared and issued SPACEWARN report in a timely manner.

Work Element 440

May 2002

Computing Systems Operations

PBC Work Element Manager – David Han

OBJECTIVE: to provide systems analysis and technical support to the operational computer activities of the NSSDC.

SIGNIFICANT EVENTS:

- Continued to maintain existing hardware (servers, Macs, PCs and peripherals) and system-level software – VMS, unix, Mac-OS, Windows, and other operational packages -- to ensure the optimal performance and connectivity. The average availability of systems for May 2002 was 100%.
- Continued to integrate new hardware and system-level software into existing systems to achieve upgraded capabilities and state-of-the-art facilities. Installed new printer for operations. Installed RSYNC Software.
- Maintained security of the systems to minimize security breaches. No security breaches were detected in this reporting period.
- Continued to administer specialized software such as data base and disk management systems.
- Continued to provide users with the necessary documentation, training, and assistance so that resources are fully utilized.